IN THE CLAIMS

- 1-39 (Canceled).
- 40. (Currently Amended) A semiconductor device, comprising:
- a first active region <u>having a first portion with a first width and a second portion with</u> a second width smaller than said first width;
- a second active region <u>having a third portion with a width substantially the same as</u> said first width and fourth portion with a width smaller than said first width;
- a third active region disposed between said first and second active regions <u>having a</u> width substantially the same as said first width; and

first, second and third contacts connected respectively to said first, second and third active regions;

said first and second active regions being symmetrically self-aligned.

- 41. (Original) A device as recited in claim 40, comprising:
- one of said first and second active regions being self-centered with said third active region.
 - 42. (Currently Amended) A device as recited in claim 40, wherein:

said first active region comprises an emitter;

said second active region comprises a collector;

said third active region comprises a base; and

said collector is symmetrically self-aligned with said emitter; emitter.

- 43. (Original) A device as recited in claim 42, comprising:
- one of said collector and said emitter being self-centered with said base.
- 44. (Currently Amended) A device as recited in claim 42, comprising:

said emitter having a narrow said second portion self-centered with said base; and

said collector having a narrow said fourth portion self-centered with said base and symmetric with said emitter second portion.

- 45. (Previously Presented) A device as recited in claim 42, comprising: said base having a lower and an upper ledge; and said third contact comprising:
- a first base contact formed on said upper ledge self-aligned with said emitter; and a second base contact formed on said lower ledge self-aligned with said collector.
- 46. (Previously Presented) A device as recited in claim 42, comprising: said base having a ledge;

said third contact formed on said ledge self-aligned with said emitter.

- 47. (Previously Presented) A device as recited in claim 46, wherein: said base has ledges on opposing sides; and said third contact comprises:
- a first base contact formed from a front side of said device; and
 a second base contact formed opposing said first base contact on said ledge selfaligned with said collector and formed from a back side of said device.
 - 48. (Canceled)
 - 49. (Original) A device as recited in claim 42, wherein: said device is a heterojunction bipolar transistor.
 - 50. (Previously Presented) A device as recited in claim 42, wherein: said base layer has a lower ledge and an upper ledge; and said third contact comprises:
 - a first base contact formed on said upper ledge; and a second base contact formed on said lower ledge.
 - 51. (Canceled)

- 52. (Cancel)
- 53. (Currently Amended) A device as recited in claim <u>40</u> 52, comprising: said second portion disposed between said third active region and said first portion.
- 54. (Cancel)
- 55. (Currently Amended) A device as recited in claim 40 52, comprising: said second fourth portion disposed between said third active region and said first third portion.
 - 56. (Cancel)
 - 57. (Currently Amended) A semiconductor device structure, comprising:
- a first active region <u>having a first portion with a first width and a second portion with</u> a second width smaller than said first width;
- a second active region <u>having a third portion with a width substantially the same as</u>
 <u>said first width and fourth portion with a width smaller than said first width; and</u>
- a third active region disposed between said first and second active regions <u>having a</u> width substantially the same as said first width; and

first, second and third contacts connected respectively to said first, second and third active regions;

a position of said first active region being self-centered with a position of said second active region in said device structure.

58. (Currently Amended) A structure as recited in claim 57, wherein:

 $\frac{1}{2}$ said a position of said first active region in said structure is self-centered with $\frac{1}{2}$ position of said third active region; and

said <u>a</u> position of said second active region in said structure is self-centered with said <u>a</u> position of said third region.

59. (Previously Presented) A structure as recited in claim 57, comprising:

said first, second and third active regions formed in a vertical stack;

said stack having a vertical axis passing through a center of said first, second and third active regions; and

said first, second and third active regions each being symmetric about said vertical axis.

- 60. (Previously Presented) A structure as recited in claim 59, wherein: said first and second contacts being symmetric about said vertical axis.
- 61. (Previously Presented) A structure as recited in claim 60, comprising: said third contact being symmetric about said vertical axis.
- 62. (Previously Presented) A structure as recited in claim 57, comprising: said third active region having a ledge; and said third contact disposed on said ledge.
- 63. (Previously Presented) A structure as recited in claim 57, comprising: said third active region having ledges on opposing surfaces; and said third contact disposed on each of said ledges.
- 64. (Previously Presented) A structure as recited in claim 57, comprising: said third active region having a side surface and a plane surface; and said third contact disposed on said side and plane surfaces
- 65. (Previously Presented) A structure as recited in claim 57, comprising: said third active region having a side surface and two opposing plane surfaces; and said third contact disposed on each of said side and said opposing plane surfaces.
- 66. (Previously Presented) A structure as recited in claim 57, comprising: said first active region having a width substantially equal to a width of said first contact; and

said second active region having a width substantially equal to a width of said second contact.

- 67. (Previously Presented) A structure as recited in claim 57, wherein: said first active region comprises an emitter region; said second active region comprises a collector region; and' said third active region comprises a base region.
- 68. (Currently Amended) A structure as recited in claim 67, wherein:

 said a position of said emitter region in said structure is self-centered with said a position of said base region; and

 $\frac{1}{2}$ said a position of said collector region in said structure is self-centered with $\frac{1}{2}$ position of said base region.

69. (Previously Presented) A structure as recited in claim 67, comprising: said emitter, base and collector regions formed in a vertical stack;

said stack having a vertical axis passing through a center of said emitter, base, and collector regions; and

said emitter, base, and collector regions each being symmetric about said vertical axis.

- 70. (Previously Presented) A structure as recited in claim 69, wherein: said first and second contacts being symmetric about said vertical axis.
- 71. (Previously Presented) A structure as recited in claim 69, comprising: said third contact being symmetric about said vertical axis.
- 72. (Previously Presented) A structure as recited in claim 67, comprising: said base region having a ledge; and said third contact disposed on said ledge.
- 73. (Previously Presented) A structure as recited in claim 67, comprising: said base region having ledges on opposing surfaces; and

said third contact disposed on each of said ledges.

- 74. (Previously Presented) A structure as recited in claim 67, comprising: said base region having a side surface and a plane surface; and said third contact disposed on said side and plane surfaces.
- 75. (Previously Presented) A structure as recited in claim 57, comprising: said base region having a side surface and two opposing plane surfaces; and said third contact disposed on each of said side and said opposing plane surfaces.
- 76. (Previously Presented) A structure as recited in claim 67, comprising: said emitter region having a width substantially equal to a width of said first contact; and

said collector region having a width substantially equal to a width of said second contact.

- 77. (Cancel)
- 78. (Cancel)
- 79. (New) A device as recited in claim 40, comprising: said first and second active regions being symmetrically self-aligned.
- 80. (New) A device as recited in claim 40, comprising:

said third contact formed on said third active region interior to an outer edge of third active region.

- 81. (New) A structure as recited in claim 57, comprising:
- a position of said first active region being self-centered with a position of said second active region in said device structure.
 - 82. (New) A structure as recited in claim 57, comprising:

said third contact formed on said third active region interior to an outer edge of third active region.